

Step	Instructions	MCS Contractors Results
1.	From manufacturers data, obtain the A-weighted sound power level of the heat pump. See "Note 1: Sound Power Level" below. The highest sound power level specified should be used (the power in "low noise mode" should not be used).	58
2.	Use "Note 2: Sound Pressure level" and "Note 3: Determination of directivity" below to establish the directivity "Q" of the heat pump noise.	Q8 - "Three Reflective Surfaces"
3.	Measure the distance from the heat pump to the assessment position in metres.	6
4.	Use table in "Note 4: dB distance reduction" below to obtain a dB reduction.	-17
5.	Establish whether there is a solid barrier between the heat pump and the assessment position using "Note 5: Barriers between the heat pump and the assessment position" and note any dB reduction.	Barrier (no view)
6.	Calculate the sound pressure level (see Note 2: Sound pressure level") from the heat pump at the assessment position using the following calculation: (STEP 1) + (STEP 4) + (STEP 5)	31
7.	Background noise level. For the purposes of the MCS Planning Standard for air source heat pumps the background noise level is assumed to be 40 dB (A)Lp. For information see "Note 6: MCS Planning Standard for air source heat pumps background noise level"	40